

Abstract

Optical sensing head and method for fabricating the same

An optical sensing head for reading out an optical data memory is proposed, having a substrate (12) with a main surface, an edge-emitting laser component (30) which is arranged on the main surface of the substrate (12) and whose irradiation axis (34) is oriented essentially parallel to the first main plane, a deflection device (36) which is arranged on the main surface of the substrate and the purpose of deflecting the laser radiation (32) in a direction which is essentially perpendicular to the main surface, at least one signal detector (20, 22; 62) for sensing the laser radiation which is reflected by the optical data memory, and an optical element (40) which guides the deflected laser radiation to the optical data memory and guides reflected laser radiation to the at least one signal detector (20, 22), the optical element (40) being connected to the substrate (12) via at least one supporting element (36, 38). The invention also contains a method for fabricating such a sensing head.

Fig. 2